

28662

S/020/61/140/002/007/023
C111/C444

On the number of the simple bases ...

35. - 37.

- 1.) $x_1 + x_2$;
- 2.) 1;
- 3.) a) $x_1 x_2$;
- b) $x_1 \sqrt{x_2}$;
- c) $x_1 x_2 + x_1 x_3 + x_2 x_3$.

38. - 40

- 1.) $x_1 + x_2 + 1$;
- 2.) 0;
- 3.) a) $x_1 x_2$;
- b) $x_1 \sqrt{x_2}$;
- c) $x_1 x_2 + x_1 x_3 + x_2 x_3$.

41. - 44.

- 1.) \bar{x} ;
- 2.) a) $x_1 x_2 + x_1 x_3 + x_2 x_3$;
- b) $x_1 x_2 + x_1 x_3 + x_2 x_3 + x_1 + x_2$;

Card 5/7

28662

On the number of the simple bases ... S/020/61/140/002/007/023
C111/C444

3.) a) 0;

b) 1.

45.

1.) $x_1x_2 + x_1x_2 + x_2x_3 + x_1 + x_2$;

2.) 0;

3.) 1.

IV. Bases consisting of four functions

46. - 47.

1.) a) x_1x_2 ;

b) $x_1 \vee x_2$;

2.) 0;

3.) 1;

4.) $x_1 + x_2 + x_3$.

48.

1.) 0;

2.) 1;

Card 6/7

28662

On the number of the simple bases ... S/020/61/140/002/007/023
C111/C444

3.) $x_1 + x_2 + x_3$;

4.) $x_1x_2 + x_1x_3 + x_2x_3$.

The author mentions: Zhegalkin.

There is one Soviet-bloc reference.

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut
imeni V. J. Lenina (Moscow State Pedagogical Institute
imeni V. J. Lenin)

PRESENTED: April 28, 1961, by P. S. Novikov, Academician

SUBMITTED: April 20, 1961

Card 7/7

ISAKOV, A.A. (Kemerovskaya oblast'); ZHURGARAYEV, Amangel'dy (Dzhambul'skaya obl., KazSSR); VLADIMIROV, A. (Asbest); FRIMAN, L.I. (Yaroslavl'); KILIMNIK, Ya.Ye. (Vinnitsa); TEREKHOV, I.A. (Skopin); AKDAULETOV, N.A. (pos.Mertuk. KazSSR); ZAKHARKIN, V.Ye. (pos.Rudtsev, Tul'skaya oblast'); SHESTOPAL, G.A. (Moskva); KOTIY, O.A. (Yaroslavl'); GAUKHMAN, V.A. (Moskva); LOPSHITS, A.M. (Yaroslavl'); SERGUSHOV, S.A. (Yaroslavl'); GOTMAN, E.G. (Pechora); VETROV, K.V. (Putintsevo, Vostochno-Kazakhstanskoy obl.); MIKHELEVICH, Sh.Kh. (Daugavpils); SKOPETS, Z.A. (Yaroslavl'); RYBAKOV, L.M. (Yaroslavl'); CHEGODAYEV, A.I. (Gavrilov-Yam)

Problems. Mat.v shkole no.6:85-92 N-D '62. (MIRA 16:1)
(Mathematics--Problems, exercises, etc.)

LAPUNOW, A. A.; SZESTOPAL, G. A. (Moskwa)

An algorismic interpretation of control processes. Roczniki matematyczne 4
no.2:187-202 '61.

(Automatic control) (Railroads)

7/11/1957
SHESTOPAL, I., kand.tekhn.nauk.

Out of the past of construction technology. Stroitel' no.9:29
S '57. (MIRA 10:12)
(Construction industry--History)

SHESTOPAL, I.A.

We are improving the operation of telegraph apparatus. Vest. svyazi
23 no.2:22-24 F '63. (MIRA 16:2)

1. Nachal'nik Khabarovskogo tsentral'nogo telegrafa.
(Telegraph)

KARMAN, Theodor. von, 1881- ; SHESTOPAL, M.G. [translator]; LOPSHITS, A.M.,
reliaktor

[Mathematical methods in engineering. Translated from the English]
Matematicheskie metody v inzhenernom dele. Perevod s angliiskogo
M.G.Shestopal. Pod redaktsiei A.M.Lopshitsa. Moskva, Gos. izd-vo
tekhniko-teoretich. lit-ry, 1946. 422 p. (MLRA 10:10)
(Engineering) (Dynamics) (Differential equations)

SANTALO, L.A.; SHESTOPAL, M.G. [translator]; LOPSHITS, A.M., redaktor;
YAGLOM, I.M., redaktor; AGRANOVICH, M.S., redaktor; GRIBOVA, M.P.,
tekhnicheskiiy redaktor

[Introduction to integral geometry. Translated from the English]
Vvedenie v integral'nuiu geometriiu. Perevod s angliiskogo M.G.
Shestopal. Pod red. A.M.Lopshitsa i I.M.Iagloma. S dop. I.M.
Iagloma. Moskva, Izd-vo inostrannoi lit-ry, 1956. 183 p.
(Geometry, Differential) (MLRA 10:1)

10. 11. 77. [11-11-77, 11.77] (Vershov); SHIMIZU, K.T. [to w. 1. box]

U.S. Dept. of Defense, Nat. Res. 00-69-93 15.

(MIA 19:12)

(Poland--Italy--France)

BERMAN, Georgiy Nikolayevich [deceased]. Prinimani ucheniya: ARAMANOVICH, I.G.; KORDEMSKIY, B.A.; POZOYSKIY, R.I.; SHESTOPAL, M.G.; SOLODKOV, V.A., red.; AKHLAMOV, S.N., tekhn.red.

[Collection of problems for the course in mathematical analysis]
Sbornik zadach po kursu matematicheskogo analiza. Izd.10, perer.
i dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 443 p.
(MIRA 13:12)

(Mathematical analysis--Problems, exercises, etc.)

SOVALOV, I.G., kand. tekhn. nauk, nauchn. red.; SHESTOPAL, N.M.,
kand. tekhn. nauk, nauchn. red.; FINKINSHTEYN, B.A., inzh.,
1961.

[Problems in improving the organization of construction and
the overall mechanization of building and assembling opera-
tions] Voprosy uluchsheniia organizatsii stroitel'nogo pro-
izvodstva i kompleksnoi mekhanizatsii stroitel'no-montazh-
nykh rabot. Moskva, Stroiizdat, 1964. 78 p.

(MIRA 18:11)

Александр Терентьевич, канд. техн. наук: 1-МДЛ-84,
Александр Павлович, канд. техн. наук: 1-МДЛ-84, К.М.,
техн. научн. ред.: 1-МДЛ-84, К.М., ред.

Floors and roofs of residential and industrial farm build-
ing. Poly i krovli zhilykh i proizvodstvennykh sel'sko-
khoziaistvennykh zdani. Moscow, Stroizdat, 1964. 109 p.
(NIR 17:8)

SHESTOPAL, N.

Allowances in standards. Stroitel' 8 no.7:3-5 J1 '62.
(MIRA 15:8)
(Standards, Engineering)

SOFINSKIY, I.D.; BLOKHIN, P.N.; GEL'BERG, L.A.; ZHDANOV, P.M.; IVASHCHENKO, I.P.; LEVINA, G.P.; NAUMOVA, N.A.; SMIRNOV, N.S.; ARONOVA, R.I.; NIKOLAYEV, N.A.; SHERENTSIS, A.A.; KOVALEVSKIY, I.I.; LOBACHEV, P.V.; SLADKOV, S.P.; DZIGAN, A.V.; FORAFONOV, N.K. Primali uchastiye: ARGANSKIY, A.S.; ASMUS, Ye.N.; BEZHALOVA, Ye.M.; BOGATYKH, Ya.D.; BURENIN, V.A.; GOL'DING, N.P.; DOMSHLAK, I.P.; MOSKALEV, S.A.; RABINOVICH, S.G.; ROGOVSKIY, L.V.; KHOKHLOVA, L.P.; SHESTOPAL, N.M.. RUBANENKO, B.R., glavnyy red.; GALKIN, Ya.G., zamest.glavnogo red.; SAPRYKIN, V.A., red.; SHCHEPETOV, V.M., red.; NOVITCHENKO, K.M., nauchnyy red.; VILKOV, G.N., inzh., red. izd-va; TYAPKIN, B.G., red. izd-va; EL'KINA, E.M., tekhn.red.

[Building your own home] Spravochnik individual'nogo zastroishchika. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1958. 442 p. (MIRA 12:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. (Building)

POPOV, A.N.; SHESTOPAL, N.M., kand. tekhn. nauk

Lowering transportation costs in construction by reducing the
weight of buildings. From. stroi. 37 no.6:30-33 Ja '59.
(MIRA 12:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR
(for Popov)

(Building materials--Transportation)
(Industrial buildings)

POPOV, A.; SHESTOPAL, N.^M, kand.tekhn.nauk; RUCH'YEV, A., inzh.

Houses built of prefabricated room-units. Stroitel' no.7:11 J1
'60. (MIRA 13:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR
(for Popov).
(Precast concrete construction)
(Apartment houses)

SHESTOPAL, N.M., kand. tekhn. nauk; RUCH'YEV, A.I., inzh.

Prospects for the development of the manufacture of large three-dimensional elements using new building materials. Str. mat.
7 no. 10:33-37 O '61. (MIRA 10:10)
(Buildings, Prefabricated) (Building materials)

RUCH'YEV, A.P., inzh., aspirant; SHESTOPAL, N.M., kand. tekhn. nauk

[Construction of residential buildings from three-dimensional blocks] Stroitel'stvo zhilykh zdaniy iz prostranstvennykh blokov; nauchnye soobshcheniya. Moskva, Gosstroizdat, 1961. 68 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. Byuro tekhnicheskoy informatsii. 2. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Ruch'yev). 3. Uchenyy sekretar' Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Shestopal). (Apartment houses)

SHESTOPAL, O. S.

Kolymskii vodnyi put'. [The Kolyma waterway]. (Sovetskaya Arktika, 1940, no. 4, p. 53-57, illus.). DLC: G600.S6

SO: Soviet Transportation and Communication, A Bibliography. Library of Congress, Reference Department, Washington, 1952, Unclassified.

SHESTOPAL, O.S..

SHESTOPAL, O.S. Gidrologiia i gidrometriia reki; uchebnik dlia tekhnikumov Ministerstva rechnogo flota. Moskva, Minist. rechnogo flota SSSR, 1946. 46 p.

DLC: GB1207.S5

SO: LC, Soviet Geography, Part I, 1951, Uncl.

BASHKIROV, Gennadiy Sergeyevich; SHESTOPAL, O.S., red.; LAPINA, Z.D.,
red.izd-va; LAVRENOVA, N.S., tekhn. red.

[Dynamics of the shore zone of seas] Dinamika pribrezhnoi zony
moria. Moskva, Izd-vo "Morskoi transport," 1961. 219 p.
(MIRA 15:3)

(Seashore)

SHESTOPAL, O. Ya. (Novosibirsk); SHURIN, Ya.I. (Novosibirsk)

Experimental determination of pressure distribution in a thin
circulat plate compressed between two plane anvils. PMTF no. 6:
174-176 N-D '63. (MIRA 17:7)

SHESTOPAL, P. S.

29162

Voprosy vyrashchivaniya arbusov i dyn' v usloviyakh BSSR. izvestiya Akad.
Nauk BSSR, 1949, No. 4, s. 131-38

SO: Letopis' Shurnal'nykh Statev, Vol. 39, Moskva, 1949

ORIN, J. P.: "Mason's Agate Seal (1955) -- Dispersal of gradual evolutionary
relations in the Palaeozoic S&S". (Ockel, 1955). 17 pp (Bibliography Order of
Index Seal Mason's Agate Seal), 150 copies (KL, 10, 1959, 110)

13(5), 25(1)

SOV/128-59-5-13/35

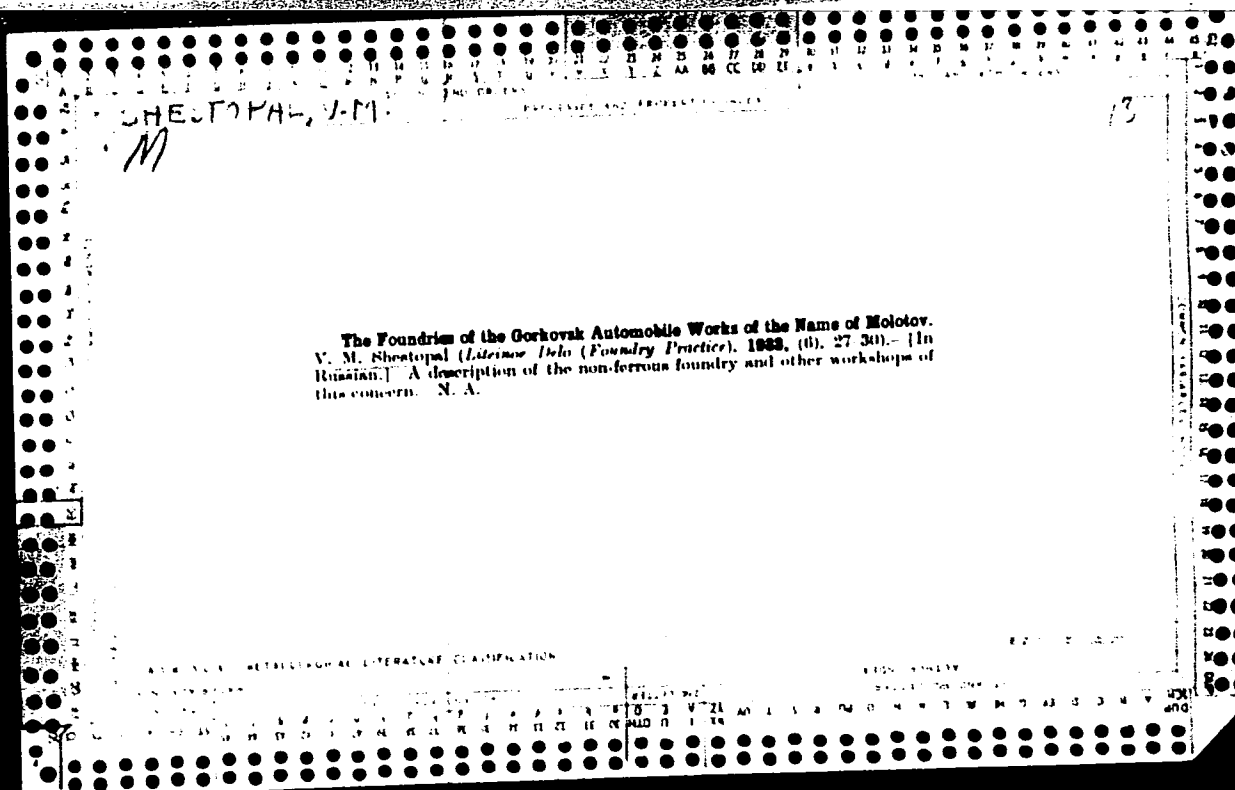
AUTHOR: Shestopal, V.M.

TITLE: Air Flow Sand Drying

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 5, pp 24-25 (USSR)

ABSTRACT: The author describes three different methods of drying sand by hot air. In Fig. (1) the method used by the factory ZPS at Gotwald (Czechoslovakia) is shown. The sand which has to be dried falls in front of a nozzle which releases hot air of 800°C, transporting the sand to the top. Capacity 1 ton per hour. In Fig. (2) and (3) a method is shown which is used by the Ford factory in London. Fig. (4) shows a method similar to the one used by the firm of Costner in Australia. There are 4 diagrams

Card 1/1



ЧЕЛОВЕК, А.И.

CA

20

Self-slugging coke. V. M. Shestopal. *Vestnik Inzhenerov Tekh.* 1938, 205-6; *Chim. Zashch.* 1939, 11, 1057.
The preliminary treatment of the coal with lime and other materials serving as fluxing agents in the production of iron the addn. of a flux in the prodn. showed volatile constituents 0.77, ash 20.4, S 0.08 and C 78.93%. Analysis of the ash gave Si 21.0, Al 18.15, Fe oxides 7.97 and lime 40.6%. The temp. of the fused metal core ponded to that with the use of normal coke and reached 1330°. The consumption of coke amounted to about 7% of the amt. of metal. The m. p. of the slag was much higher and the attack on the furnace lining was much less. Lime consumption was half as great as with the use of a flux. The iron took up much less C. M. G. Moore.

Mr. C. Moore

438 564 METALLURGICAL SIGNATURE CLASSIFICATION

SHESTOPAL, V. M. ed. and I. P. EGORENKOV.

Otlivki iz chuguna; svoistva i konstruirovaniye. Utverzhdeno v kachestve uchebn. posobiia dlia mashinostroit. vtuzov. Moskva, Mashgiz, 1945.
139 p. illus.

Bibliography: p. 137-138.

Cast-iron castings; properties and design.

DLC: TS230.S56

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

... ..
... ..

... ..

5

SHESTOPAL, V. M.

The Technological Principles of Casting Design.
V. M. Shestopal. (Foundry Trade Journal, 1945,
vol. 77, Dec. 13, pp. 317-322; Dec. 20, pp. 339-346).
Recommendations for simplifying casting design are
made and some of the standards adopted in the U.S.S.R.
for draft and contraction are cited.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990

SHESTOFAL, V. M. ed.

Brak chugunnogo lit'ia i bor'ba s nim. Moskva, Mashgiz, 1946. 196 p.

Rejected iron castings and prevention of spoilage.

DLC: Unclass

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHESTOPAL, V. M. ed.

Sovremennye napravleniia v proizvodstve chugunnogo lit'ia. Moskva,
Mashgiz, 1946. 111 p.

Modern trends in the production of cast-iron castings.

DLC: Unclass

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

AKSENOV, N.P., professor doktor tekhnicheskikh nauk; SHESTOPAL, V.M.,
redaktor; GRAKOVA, Ye., tekhnicheskiiy redaktor

[Foundry equipment] Oborudovanie liteinykh tsakhov. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostoit. lit-ry, 1946. 551 p. (MLRA 9:11)
(Foundry machinery and supplies)

SHESTOPAL, V. M. ed and F. F. KULESHOV.

Progressivnaia tekhnologiia proizvodstva krupnogo lit'ia.
(Vestn. Mash., 1948, no. 7, p. 23-30)

Refers to "Stankolit" Ironworks and Moscow J. V. Stalin Machine
Tools and Instruments Institute.

Advanced technique in production of large-size castings.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

SHESTORAL, V. M. ed.

Lit'e v stankostroenii. Moskva, Mashgiz, 1949. 231 p. illus.

Bibliography: p. 229-231.

Founding in machine-tool construction.

DLC: TJ1185.S54

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHESTOPAL, V. M.

USSR/Engineering - Foundry, Equipment

Apr 52

"On the Problem of Calculating the Precision of Casting Molds," V. M. Shestopal, Cand Tech Sci, Gipros-tanok

"Litey Proizvod" No 4, pp 19-22

Discusses method of "dimensional chains" for designing casting molds. For each mold or its sep assembly, a group of dimensions is selected. These dimensions, being distributed in definite succession along closed contour, comprise "dimensional chain," themselves representing links of this chain. Value of closing link, which has to be detd, is equal to algebraic sum of all other links. Mold for gearbox of turret lathe illustrates application of method.

213T68

SHESTOPAL, V.M.

GRINBERG, B.G.; RUBTSOV, N.N., professor, doktor tekhnicheskikh nauk, laureat Stalinskoy premii, zasluzhennyy deyatel' nauki i tekhniki, retsenzent; RAKOV, V.M., kandidat tekhnicheskikh nauk, dotsent, retsenzent; ~~SHESTOPAL~~, V.M., kandidat tekhnicheskikh nauk, dotsent, retsenzent; YUDIN, S.T., nauchnyy redaktor; RZHAVINSKIY, V.V., redaktor; RAKOV, S.I., tekhnicheskiy redaktor.

[Fundamentals of metal casting] Osnovy liteinogo proizvodstva. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1953. 263 p. [Microfilm]
(Founding) (MLRA 7:10)

SHESTOPAL, V.M.

Comparative costs of cast and welded construction. Lit.proizv. no.9:24
S-0 '53. (MLRa 6:9)

(Founding) (Welding)

SHESTOPAL, V. M.

USSR/Miscellaneous - Foundries

Card 1/1 : Pub. 61 - 5/23

Authors : Rykhletskiy, I. Z., and Shestopal, V. M.

Title : Typical iron foundries

Periodical : Lit. proizv. 4, 12-14, July 1954

Abstract : Standards set up by the 19-th congress of the Communist Party USSR for the planning and construction of modern foundries are discussed. The technical and economical features, to be taken into consideration in the planning of foundry plants, are listed. Plans and tables showing the basic characteristics of two typical foundry plants intended for large scale machine construction, pipe casting, etc., are included.

Institution : ...

Submitted : ...

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P.; BARMASH, A.I.; BEDNYAKOVA,
A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSTEYN, S.A.; BITUTSKOV,
V.I.; BLYUMENBERG, V.V.; BONCH-BRUYEVICH, M.D.; BORMOTOV, A.D.;
BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S.,
[deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.;
GOLDOVSKIY, Ye.M.; GOHBUNOV, P.P.; GORYAINOV, F.A.; GRINBERG, B.G.;
GRYUNER, V.S.; DANOVSIIY, N.F.; DZEVUL'SKIY, V.M., [deceased];
DREMAILO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURNEBAUM, N.S.,
[deceased]; YEGORCHENKO, B.F., [deceased]; YEL'YASHKEVICH, S.A.;
ZHIREBOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, F.S.; IVANOVSKIY,
S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.;
KASATKIN, F.S.; KATSAUROV, I.N.; KITAYGORODSKIY, I.I.; KOLESNIKOV,
I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.;
LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu.; LUTSAU, V.K.;
MANNENBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.;
NYDEL'MAN, G.R.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.;
POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye.; RZHEVSKIY, V.V.; ROZENBERG,
G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.;
RUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu.,
STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.;
FEDOROV, A.V.; FERRE, N.R.; FRENKEL', N.Z.; KHEYFETS, S.Ya.; KHLOPIN,
M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.;
SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SHPRINK, B.B.;
SHTERLING, S.Z.; SHUTYY, L.R.; SHUKHAL'TER, L. Ya.; KERVAYS, A.V.;

(Continued on next card)

ANDREYEV, A. B. (continued) Card 2.

YAKOVLEV, A. V.; ANDREYEV, Ye. S., retsenzent, redaktor; BERKEN-GEYM, B. M., retsenzent, redaktor; BERMAN, L. D., retsenzent, redaktor; BOLTINSKIY, V. N., retsenzent, redaktor; BONCH-BRUYEVICH, V. L., retsenzent, redaktor; VELLER, M. A., retsenzent, redaktor; VINOGRADOV, A. V., retsenzent, redaktor; GUDTSOV, N. T., retsenzent, redaktor; DEGTYAREV, I. L., retsenzent, redaktor; DEM'YANYUK, F. S., retsenzent, redaktor; DOBROMYSLOV, I. N., retsenzent, redaktor; YELANCHIK, G. M., retsenzent, redaktor; ZHEMOCHKIN, D. N., retsenzent, redaktor; SHURAVCHENKO, A. N., retsenzent, redaktor; ZLODEYEV, G. A. retsenzent, redaktor; KAPLUNOV, R. P., retsenzent, redaktor; KUSAKOV, M. M., retsenzent, redaktor; LEVINSON, L. Ye., [deceased] retsenzent, redaktor; MALOV, N. N., retsenzent, redaktor; MARKUS, V. A. retsenzent, redaktor; METELITSYN, I. I., retsenzent, redaktor; MIKHAYLOV, S. M., retsenzent, redaktor; OLIVETSKIY, B. A., retsenzent, redaktor; PAVLOV, B. A., retsenzent, redaktor; PANYUKOV, N. P., retsenzent, redaktor; PLAKSIN, I. N., retsenzent, redaktor; RAKOV, K. A. retsenzent, redaktor; RZHAVINSKIY, V. V., retsenzent, redaktor; RINBERG, A. M., retsenzent, redaktor; ROGOVIN, N. Ye., retsenzent, redaktor; RUDENKO, K. G., retsenzent, redaktor; RUTOVSKIY, B. N., [deceased] retsenzent, redaktor; RYZHOV, F. A., retsenzent, redaktor; SANDOMIRSKIY, V. B., retsenzent, redaktor; SKRAMTAYEV, B. G., retsenzent, redaktor; SOKOV, V. S., retsenzent, redaktor; SOKOLOV, N. S., retsenzent, redaktor; SPIVAKOVSKIY, A. O., retsenzent, redaktor; STRAMENTOV, A. Ye., retsenzent, redaktor; STRELETSKIY, N. S., retsenzent, redaktor;

(Continued on next card)

ANDREYEV, A.V., (continued) Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye.M., retsenzent, redaktor; KHACHATYROV, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTO-PAL, V.M., retsenzent, redaktor; SHESHKO, Ye.F., retsenzent, redaktor; SHCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, F.S., professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor; PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAL'TER, L. Ya, kandidat tekhnicheskikh nauk, dotsent, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor.

(Continued on next card)

ANDREYEV, A. V. (continued) Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet; IU. A. Stepanov i dr. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)
(Technology--Dictionaries)

SHESTOPAL, V.M.

Pneumatic transportation of molding materials in foreign countries.

Lit.proizv. no.12:12-13 D '55.

(MLRA 9:3)

(Pneumatic-tube transportation) (Molding)

ORESHKIN, Vladimir Dmitriyevich; SHESTOPAL, V.M., kandidat tekhnicheskikh nauk, retsenzent; YUDIN, S.T., inzhener, retsenzent; VOLPYANSKIY, L.M., inzhener, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Founding fundamentals] Osnovy liteinogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 339 p. (MLRA 10:4)
(Founding)

SHESTOPAL, V.M., kandidat tekhnicheskikh nauk; SAKHAROV, G.M., inzhener.

Standardization of basic parameters for foundry buildings. Lit.
proizv. no.5:22-23 My '56. (MLRA 9:8)
(Foundries) (Industrial buildings)

K
POLYAKOV, Yakov Grigor'yevich; SHESTOPAL, Viktor Mikhaylevich; ISLANKINA
T.F., redaktor; GUBIN, M.I., tekhnicheskii redaktor.

[Development of cast iron production] Puti razvitiia tekhniki
chugunoliteinogo proizvodstva. Moskva, Izd-vo "Znanie," 1957.
31 p. (Vsesoiuznoe obshchestvo po rasprostraneniui politicheskikh
i nauchnykh znani. Ser.4, no.6)[Microfilm] (MLRA 10:6)
(Cast iron)

Increasing Labor Productivity in Machine Building (Voprosy povysheniya
proizvoditel'nosti trudy v mashinostroenii) Gosudarstvennoye nauch-tekh.
izdat. mashinostroitel'. literatury, Moscow, 1957. 511 pp.
(Table of Contents authors below)

This collection presents a comparative tech. and economic analysis of
most effective methods and industrial processes for obtaining high labor productivity
in machine building. Output may be stepped up by further standardization of machine
tools, materials, and production methods; drawing on unused potentials.
Covers all stages of planning and production as performed in modern plants of
USSR, actual experience, and new methods are discussed.

SHESTOPAL, V. M. ' "Selecting methods of Making Castings," p. 226.

SHESTOPAL, V.M.

At the conference on founding in Leipzig. Lit.izv. no.12:27-30
D '57. (MIRA 11:1)

(Leipzig--Founding--Congresses)

SLEZNIKOV, G.I., inzh.; ANIENKOVA, Ya.G., kand.tekhn.nauk; GRUDOV, P.P.,
kand.tekhn.nauk [deceased]; DEGTYARENKO, N.S., kand.tekhn.nauk;
IMSHENNIK, K.P., kand.tekhn.nauk; KASENKOV, M.A., kand.tekhn.
nauk; MEL'NIKOV, N.F., inzh.; MALOV, A.N., kand.tekhn.nauk;
POKROVSKIY, B.V., inzh.; POLYAK, S.M., kand.tekhn.nauk; POLYANSKIY,
A.N., kand.tekhn.nauk; POPILOV, L.Yu., inzh.; POPOV, V.A., kand.
tekhn.nauk; RUBINSHTEYN, S.A., kand.tekhn.nauk; SOKOLOV, N.L.,
inzh.; SHAMIRGON, S.A., inzh.; SHESTOPAL, V.M., kand.tekhn.nauk;
SHUKHOV, Yu.V., kand.tekhn.nauk; ACHERKAN, N.S., prof., doktor
tekhn.nauk, glavnyy red.; VLADISLAVLEV, V.S., red. [deceased];
POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; STOLBIN, G.B.,
red.; CHERNAVSKIY, S.A., red.; KRYLOV, V.I., inzh, red.;
KARGANOV, V.G., inzh., red.graficheskikh rabot; SOKOLOVA, T.F.,
tekhn.red.

[Metalworking handbook in five volumes] Spravochnik metallista
v piati tomakh. Chleny red.soveta: V.S.Vladislavlev i dr.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.3. .
Book 2. [Ferrous and nonferrous metal products] Sortiment chernykh
i tsvetnykh metallov. 1958. 204 p. Vol.4. 1958. 778 p. (MIRA 12:1)
(Metalwork)

Metals Engineering Handbook in Five (Cont.)

SOV/1439

Constructional Steels (N.P. Aristov, Candidate of Technical Sciences)	127
Tool Steels (V.S. Vladislavlev, Professor)	166
Classification	166
Carbon tool steels	166
Alloy tool steels	168
Basic steels recommended for manufacture of various kinds of cutting tools	173
Steels recommended for making measuring instruments	177
Steel inspection for nonmetallic inclusions and carbide liquation	179
Steels recommended for making dies for hot working	180
Steels recommended for making dies for cold working	182
Steels for making die casting molds	184
Microstructure of carbon and alloy tool steels at delivery	185
Defects of high-speed steels at delivery and inspection of microstructure	187
Carbide Alloys (V.S. Rakovskiy, Candidate of Technical Sciences)	190
General information	190
Classification of cemented carbide alloys	190
Properties of cemented carbide alloys and of "micanite" [Soviet name for a ceramic material]	191
Applications of cemented carbide alloys	192

Card 4/ 14

SHESTOPAL, V M

25(2), (7)

PHASE I BOOK EXPLOITATION

SOV/1437

Spravochnik metallista v pyati tomakh, t. 4, (Metals Engineering Handbook in Five Volumes, Vol 4) Moscow, Mashgiz, 1958. 778 p. 50,000 copies printed.

Ed. (Title page): A.N. Malov, Candidate of Technical Sciences; Ed. (Inside book): V.I. Krylov, Engineer; Tech. Ed.: T.F. Sokolova; Editorial Board: N.S. Acherkan (Chairman and Chief Ed.), Doctor of Technical Sciences, Professor; V.S. Vladislavley, Professor (Deceased); A.N. Malov, Candidate of Technical Sciences; S.N. Pozdnyakov; A. Ya. Rostovkyh; G.B. Stolbin; and S.A. Chernavskiy; Managing Ed. for Reference Literature: V.I. Krylov, Engineer.

PURPOSE: This handbook may be useful to technicians and engineers working in the field of machine design and production.

COVERAGE: This volume covers the following topics: casting, forging, pressing, stamping, welding, electric methods of machining, and metal cutting. Recently developed electrical methods of machining which are not yet used in production are described; viz., the so-called "electropulse" and "electrohydraulic" methods. No personalities are mentioned. There are 79 Soviet references.

Card 1/9

Metals Engineering Handbook (Cont.)

SOV/1437

Heating metal before forging and stamping (M.A. Kasenkov, Candidate of Technical Sciences)	62
General information	62
Cooling of forgings	70
Heating equipment for forging	73
Open die forging(V.B. Pokrovskiy, Engineer)	78
Tools for open die forging	88
Open die forging technique	93
Forging in blacksmith closed dies	105
Combined smith and drop forging by the method of A.V. Potekhin	108
Hammer forging (Yu.V. Shukov, Candidate of Technical Sciences)	109
Hot forging on crank presses (Yu. V.Shukhov, Candidate of Technical Sciences, and N.L. Sokolov, Engineer)	135
Forging on percussion presses	154
Forging on horizontal machines	155
Trimming, piercing, straightening and sizing of forgings (N.L. Sokolov, Engineer)	175
Trimming and piercing of forgings	175
Straightening of forgings	179
Sizing of forgings	180

Card 3/9

Metals Engineering Handbook (Cont.)

SOV/1437

III. Cold Working (A.N. Malov, Candidate of Technical Sciences)	185
Designing dimensions and shape and blanks	185
Determination of shape and dimensions of blanks for parts requiring deforming operations	185
Dimensions of blanks for parts to be made by bending	185
Dimensions of blanks for parts to be made by drawing	189
Determination of width of strip or band and simultaneous determination of coefficient of utilization of the material	202
Slitting a sheet into strips	209
Calculation of the force for basic stamping operations	216
Basic production design	224
Punching and piercing	224
Drawing cylindrical parts without flange	236
Drawing without thinning	236
Drawing with thinning	242
Drawing parts with flange	243
Drawing hollow step-shaped parts	245
Drawing tapered parts	246

Card 4/9

Metals Engineering Handbook (Cont.)

SOV/1437

[Progressive] drawing from strip	247
Geometry of working portions of a stamping die	249
Punching, piercing, notching, and cutting-off operations	249
Trimming	252
Bending	254
Drawing without thinning	258
Cold three-dimensional stamping (S.M. Polyak, Candidate of Technical Sciences)	260
Cold upsetting (V.A. Popov, Candidate of Technical Sciences)	269
Materials for cold upsetting	269
Tools	271
Typical production methods of cold upsetting	272
IV. Welding (K.P. Imshennik, Candidate of Technical Sciences)	278
General information	278
Manual arc welding of constructional steels	283
Welding equipment	286
Spot and seam welding of sheet metal	290
Cast-iron welding	293

Card 5/9

Metals Engineering Handbook (Cont.)

SOV/1437

Welding nonferrous metals	293
Oxygen [flame] metal cutting	295
Use of welding in toolmaking	297
Butt welding in toolmaking	297
Surfacing of cutting tools	306
Welding high-speed steel bits on single-point tools	312
Brazing of carbide alloy tools	313
 V. Electric Machining Methods (L.Ya. Popilov, Engineer)	 317
Electrochemical machining methods	317
Basic equipment for electrolytic polishing	323
Chemical machining methods	324
Anodic machining methods	325
Tools for anodic machining	325
Equipment	329
Heating metals and alloys in electrolytes	332
Electroresistance machining	334
Electrospark machining	340
Equipment for electrospark machining	356
Electropulse machining	356
"Electrohydraulic" machining [Using high pulse pressures generated in liquid by a high-voltage pulse discharge with short duration and steep front]	357

Card 6/9

Metals Engineering Handbook (Cont.)

SOV/1437

VI. Cutting Regimes (P.P. Grudov [Deceased], Ye.G. Annenkova, and S.A. Rubinshteyn, Candidates of Technical Sciences)

General information	357
Elements of cutting process	359
Turning operations	359
Planing and shaping	360
Drilling and enlarging	385
Countersinking and reaming	386
Broaching	397
Milling	403
Cutting with disc-type saws	407
Cutting with powered hack-saws and with band-saws	419
Thread cutting	422
Tooth-cutting operations	423
Grinding operations	432
	452

VII. Wear of Cutting Tools (Ye.G. Annenkova and S.A. Rubinshteyn, Candidates of Technical Sciences)

Wear and life of single-point tools	460
	460

Card 7/9

Metals Engineering Handbook (Cont.)

SOV/1437

Wear and life of drills	463
Wear and life of countersinks and reamers	465
Wear and life of broaches	467
Wear and life of milling cutters	468
Wear and life of disc-type saws	471
Wear and life of thread-cutting tools	471
Use of lubricating coolants	480
VIII. Formulas for Basic Machine Time on Metal-cutting Machine Tools (Ye.G. Annenkova and S.A. Rubinshteyn, Candidates of Technical Sciences)	
Formulas for calculation of basic machine time	484
IX. Fixtures for Mechanical Machining N.F. Mel'nikov, Engineer)	
Definitions and classification	517
Parts and mechanisms for setting	517
Parts and mechanisms for clamping	518
Mechanized actuators for clamping devices	534
Setting-clamping devices	550
Parts and mechanisms for guiding	596
Standardized universal fixtures and universal setting-up devices	626
	644

Card 8/9

Metals Engineering Handbook (Cont.)

SOV/1437

X. Bench Work (A.N. Malov, Candidate of Technical Sciences)	670
Chipping	670
Sawing (A.N. Polyanskiy, Candidate of Technical Sciences)	673
Filing (A.N. Polyanskiy, Candidate of Technical Sciences)	674
Scraping (A.N. Malov, Candidate of Technical Sciences)	700
Layout (A.N. Malov, Candidate of Technical Sciences)	704
Mechanic's hand tools for assembling (A.N. Malov, Candidate of Technical Sciences)	707
XI. Metal Shearing (N.S. Degtyarenko, Candidate of Technical Sciences)	720
General information	720
Tools for cutting-off operations in metal-cutting machine tools	722
Tools for cutting-off operations in presses and shears	745
Alphabetical Subject Index (S.L. Khas'minskiy)	751

AVAILABLE: Library of Congress

Card 9/9

GO/gmp
5-25-59

545: TOPAL 1111

AUTHOR: None Given 117-58-5-23/24

TITLE: All-Union Conference of Foundry Workers (Vsesoyuznoye soveshchaniye liteyshchikov)

PERIODICAL: Mashinostroitel', 1958, Nr 5, p 48 (USSR)

ABSTRACT: At the end of 1957, an All-Union conference took place in Moscow on scientific research in casting. After the plenary session the meeting broke up into the following 5 sections: iron casting, steel casting, technology of the casting form, non-ferrous casting, and equipment. A total of 45 reports were given. Representatives of the satellites also participated. V.M. Shestopal, Candidate of Technical Sciences (Giprostanok) reported on "The Latest in Projects of Foundry Shops and Plants". I.P. Yegorenkov, Candidate of Technical Sciences reported on "The Latest in Projects of Casting Machines". N.G. Girshovich, Professor and Doctor of Technical Sciences (LPI imeni Kalinin) reported on the important research work being accomplished in determining the continuity of solidification of castings. A.F. Landa, Professor, Yu.A. Litvintsev, Engineer and Florin of the Moskovskiy institut khimicheskogo mashinostroyeniye (Moscow Institut of Chemical Machine Build-

Card 1/3

All-Union Conference of Foundry Workers

117-58-5-23/24

ing) reported on increased corrosion resistance and heat resistance of high-test iron with ball-shaped graphite. A.Ye. Krivosheyev, Professor of the Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute) reported on "The Crystallization of Chilled Iron". B.S. Mil'man, Candidate of Technical Sciences (TSNIITMASH) reported on "The Formation of Ball-Shaped Graphite and Prospects for Receiving High Test Iron". N.D. Titov, Candidate of Technical Sciences (Automobile Plant imeni Likhachev) reported on "Conveyor Mass Production at ZIL". G.I. Kletskin, Candidate of Technical Sciences (Stankolit) spoke on "Improvements of the Process of Melting Iron in Cupola Furnaces". N.V. Gel'perin, Candidate of Technical Sciences (NII TSKhM) reported on "Production of Crank Shafts for Tractor and Harvester Engines". I.N. Frolov, Engineer of the Barnaul'skiy kotel'nyy zavod (Barnaul Boiler Plant) reported on the centrifugal casting of important iron and steel parts. Ye.M. Baturin, Engineer, reported on "Risers in Exothermic Heat Treatment". N.Ya. Kogan, Engineer, (VPTI, GLAVNIIP at GOSPLAN USSR) reported on "A New Technology of Producing Large Castings in Mechanized

Card 2/3

All-Union Conference of Foundry Workers

117-58-5-23/24

Caissons". N.N. Belousov, Candidate of Technical Sciences and A.A. Dodonov, Engineer, K.G. Kovvi and Z.G. Mednikov talked about casting under pressure by using a vacuum. G.S. Taburinskiy, Engineer (NIILITMASH) reported on automatic machines for shell moulds and cores. The work of the conference will be published in 1958.

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Card 3/3 1. Foundry workers-Conference-USSR

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8(6); 28(1)

PHASE I BOOK EXPLOITATION

SOV/2497

Akademiya nauk Ukrainskoy SSR. Institut elektrotekhniki.

Voprosy ustoychivosti i avtomatiki energeticheskikh sistem (Problems in Stability and Automation of Power Systems) Kiyev, Izd-vo AN UkrSSR, 1959. 186 p. (Series: Its: Sbornik trudov, vyp. 16) Errata slip inserted. 4,000 copies printed.

Ed. of Publishing House: T. K. Remennik; Tech. Ed.: N. P. Rakhlina;
Editorial Board: A. D. Nesterenko, Corresponding Member, Ukrainian SSR Academy of Sciences (Resp. ed.), S. A. Lebedev, Academician, S. I. Tetel'baum, Corresponding Member, Ukrainian SSR Academy of Sciences, A. N. Milyakh, Doctor of Technical Sciences, Ye. V. Khrushcheva, Candidate of Technical Sciences, and L. V. Tsukernik.

PURPOSE: This collection of articles was published in line with a directive of the scientific council of the Electrical Engineering Institute, Academy of Sciences, UkrSSR. It is intended for scientific engineering and technical personnel concerned with problems of stability and automatic control of power systems.

Card 1/5

Problems in Stability and Automation (Cont.)

SOV/2497

COVERAGE: The authors analyze static stability of a complex power system, taking into account automatic control and load characteristics. They discuss transients in a compensated network during short-circuiting to ground and describe netloads of calculating transients in current transformers. They also consider basic features of calculating current transformers with magnetizing and discuss linear theory of magnetic amplifiers as well as new types of frequency relays and frequency measuring devices. No personalities are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

Foreword

3

Tsukernik, L.V. Characteristics of Lyapunov's Theory of Stability and Problems of Stability of Power Systems

5

The author presents a brief review of studies on the theory of stability of power systems and shows the importance of Lyapunov's work on the general theory of stability. There are 35 references, all Soviet (including 2 translations).

Tsukernik, L.V. Analysis of a Matrix of Equation Coefficients for a Disturbed Motion of a Complex Power System and Determination of the Order of a Characteristic Equation

21

Card 2/6

Problems in Stability and Automation (Cont.)

SOV/2497

Kachanova, N.A., and V.M. Shestopalov. Short-time Unloading of a Receiving Power System as a Means of Increasing Stability 77

The authors discuss short-time unloading of a receiving power system with automatic reclosing for increasing system stability. They briefly describe the construction and results of testing of a combined frequency relay which may serve as a starting mechanism for short-time unloading. There are 3 references: 2 Soviet and 1 English.

Sirota, I.M. Methods of Calculating Transients in Current Transformers 87

The author presents a general analysis of a transient process and discusses a new and sufficiently accurate method of calculating transients. The method takes into account nonlinearity of magnetic characteristics of current-transformer core and inductance of a secondary-circuit load for any initial conditions. The author uses a method of so-called specific quantities as an auxiliary method of procedure and calculates transients with the aid of magnetization curves for iron for successive intervals of 0.25-0.50 periods. There are 13 references: 9 Soviet, 3 English and 1 German

Kubyshin, B.Ye. Problems of a Linear Theory of Magnetic Amplifiers 113

The author shows that a magnetic amplifier should be considered as a current or voltage generator controlled with d-c, a-c or pulse currents or voltages with a frequency lower than that of the magnetizing current.

Card 4/6

Prblems in Stability and Automation (cont.)

SOV/2497

He discusses equivalent circuits of magnetic amplifiers and derives expressions for amplifier parameters. There are 7 references, all Soviet (including 1 translation).

Kostyuk, O.M. Current transformers with D-C Magnetization and Basic Aspects of Calculating Transformers Used in Circuits for Automatic Field Regulation of Synchronous Generators

135

The author discusses a graphic-analytical d-c magnetization used in circuits for automatic field regulation of synchronous machines. There are 8 references: 6 Soviet, 1 English and 1 German.

CIRCUITS, DEVICES AND EXAMPLES OF CALCULATIONS

153

Kachanova, N.A. and L.V., Tsukernik. Analysis of Static Stability of a Long-distance Transmission Line, Taking Into Account Complex Load Characteristics

153

The authors study the effect of voltage and frequency static characteristics of a complex load as well as the effect of dynamic characteristics of an equivalent induction motor on the stability of a long-distance power transmission line. They conclude that the dependence of load

Card 5/6

Problems in Stability and Automation (Cont.)

SOV/2497

conductance on voltage is the major factor affecting stability. There are 6 references, all Soviet.

Shestopalov, V.N. Device for Measuring Frequency

164

The author discusses an electronic device for frequency measurement by measuring the duration of a certain number of periods. The number of periods is counted by means of a trigger circuit similar to that used in computers. The duration is determined with the aid of a vacuum-tube generator stabilized by means of a tuning-fork electromechanical frequency transducer. Measurements obtained with the aid of the device are sufficiently accurate in the wide range of radio frequencies. There is 1 Soviet reference.

Kubyshin, B.Ye. Method of Calculating Magnetic Amplifiers on the Linear Theory.

174

The author considers methods of selecting operating conditions for amplifiers and determining coefficients required in calculations. He presents a numerical example of calculating a magnetic amplifier for contactless power commutation. There is 1 Soviet reference.

AVAILABLE: Library of Congress

Card 6/6

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11-23-59

PHASE I BOOK EXTRACTATION SOV/1199
Leningrad. Politechnicheskii Institut

Soyuznaya gosstizheniya liyemogo proizvodstva; Iyudy
 Mashinovskoy nauchno-tekhnicheskoy konferentsii (Recent
 Achievements in Founding: Transactions of the Scientific
 and Technical Conference of Schools of Higher Education)
 Moscow, Mashiz, 1970. 336 p. Kireva slip inserted.
 4,000 copies printed.

Resp. Ed.: Yu. A. Nezhdenov, Doctor of Technical Sciences;
 Professor, Ed.: N. G. Gilyarovich, Doctor of Technical
 Sciences, Professor, Ed.: R. P. Labodov, Doctor, Managing
 Ed. for Literature, Heavy Machine Building (Leningrad
 Department, Mashiz); Ye. F. Naumov, Engineer, Tech. Ed.:
 Ye. A. Dlugomazkaya, and L. V. Shebelina.

PURPOSE: This book is intended for the technical personnel
 of foundries. It may be used by students of the field.

COVERAGE: This collection of articles discusses problems in
 founding processes. Individual articles treat the melting
 of metals and their alloys, mechanization and automation
 of casting processes, aspects of the manufacture of steel,
 cast iron, and nonferrous metal castings. No personalities
 are mentioned. References accompany individual articles.
 4. Mashiz, O. N. and B. B. Olyunov. Investigation of
 the action of solidification in castings 25

5. Elunov, M. Y. Behavior of Suspended Admixtures During
 Crystallization 32

6. Rebinovich, Ye. Z. Mechanism of Molten Metal Flow 35

7. Dzug, I. M. Casting Properties and the Selection of
 the Method of Pouring the Zns Type (Oxide) Film-Forming
 Alloys 41

8. Rebinovich, B. Y. Hydraulics in Gating Systems 46

9. Postnov, L. M. Theory of Shrinkage Porosity 61

II. MECHANIZATION AND AUTOMATION IN FOUNDRY
 10. Shestakov, V. M. New Methods in Planning Casting Shops
 and Plants 77

11. Yegorov, I. P. Development of the Manufacture of
 Foundry Machinery 91

Card 3/9

SHESTOPAL, V.M.

Unified line of foundry shops and plants. Lit. proizv. no.11:17-20
N '60. (MIRA 13:12)
(Founding) (Industrial organization)

ABRAM P.Ya.; ALEKSANDROVA, G.I.; VOL'SKIY, V.S.; GORDON, Kh.I.;
KLIMOVICH, A.I.; LIFSHITS, V.A.; FEDOTOV, F.G.[deceased];
AVKSENT'YEV, P.A.,[retsenzent]; ZAKHAROV, N.N.[retsenzent];
KOCHANOV, M.I.[retsenzent]; LEKSASHOV, P.P.[retsenzent];
NOVIKOV, V.F.[retsenzent]; SOKOLOV, M.V.[retsenzent];
SHESTOPAL, V.M.[retsenzent]; YAKOBSON, M.O.[retsenzent];
GAL'TSOV, A.D., red.; STRUZHESTRAKH, Ye.I., red.; KHISIN, R.I.,
red.; SEMENOVA, M.M., red. izd-va; POCHTAREVA, A.V., red. izd-
va; TIKHANOV, A.Ya., tekhn. red.; MODEL', B.I., tekhn. red.

[Handbook for the establishment of norms in the machinery
industry in 4 volumes]Spravochnik normirovshchika-mashinostroi-
telia v 4 tomakh. Moskva, Mashgiz, Vol. 4. [Engineering norms
in auxiliary shops]Tekhnicheskoe normirovanie vo vspomogatel'-
nykh tsekhakh. 1962. 478 p. (MIRA 16:2)
(Machinery industry--Production standards)

SHESTOPAL, V. M.

"Technical and economic bases of specialization in designing of foundries."

report submitted for 31st Intl Foundry Cong, Amsterdam, 21-25 Sep 64.

BUROV, F.I.; GYLOVCO, I.D.; SHESTOPAL, V.M., doktor tekhn. nauk,
retsensent.

[Ready reference tables for the design of foundries] Spra-
vochnye tablitsy po proektirovaniu liteinykh tsekhov. Mo-
skva, Mashinostroenie, 1964. 231 p. (MIRA 17:10)

1. N.Y., U.S.A. ... MARITENABALA, U.S.A., DUBININ, U.S.A.

2. 1960 International Congress of Townspeople. 1st. prodzv.
25.001-2 F 160. (MIRA 18:6)

L 9673-66 EWT(1)/EWT(m)/EPF(n)-2/EWP(i)/EWP(t)/EWP(b)/EWA(h)/ETC(m) IJP(c)/RPI
 ACC NR: AP5027450 JD/WW/JW/RM SOURCE CODE: UR/0181/65/007/011/3461/3463

AUTHOR: Shestopal, V. O. 44.55

ORG: Institute of Thermophysics SO AN SSSR, Novosibirsk (Institut teplofiziki SO AN SSSR) 44.55

TITLE: Specific heat and vacancy formation in titanium at high temperatures 44.55 27

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3461-3463

TOPIC TAGS: titanium, heat capacity, crystal vacancy

ABSTRACT: A modulation method was used for determining the thermal capacity of titanium. A titanium iodide wire specimen was heated using ac current, and the specific heat was found from the formula 21,44,55 1)

$$mc_p = \frac{P}{2\omega\theta}$$

where P is the power and ω the frequency of the current fed to the specimen, m is the weight of the specimen and θ accounts for the amplitude of temperature oscillations. The color temperature of the specimen was determined using a photomultiplier with red and blue light filters. The vacancy concentration is given by the formula

$$C = 170e^{-\frac{1.8 \cdot 10^4}{T}}$$

Card 1/2

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ACC NR: AP5027450

12

which attains a value of 1.7% at the melting point. Curves are given showing the thermal capacity of titanium as a function of temperature. Satisfactory agreement is found between experimental points for three specimens and the experimental curve

$$c_p = 0.120 + 2.2 \cdot 10^{-5} T + \frac{2.3 \cdot 10^9}{T^2} e^{-\frac{1.8 \cdot 10^4}{T}}$$

A comparison with previous data in the literature shows a considerable divergence in some cases. The author thanks P. G. Strelkov and Ya. A. Kraftmakher for interest in the work, G. G. Zaytseva for consultation, and D. S. Mirinskiy for assistance in preparing the specimens. Orig. art. has: 1 figure, 3 formulas.

SUB CODE: 20/ SUBM DATE: 19Jun65/ ORIG REF: 004/ OTH REF: 002

44,50

44,55

44,55

CC

Card 2/2

L 16684-66 EWT(1)/EWP(e)/EWT(m)/EPF(n)-2/EWA(h) WW/JW/WH
 ACC NR: AP5021921 SOURCE CODE: UR/0207/65/000/004/0170/0171

AUTHOR: Kraftmakher, Ya. A. (Novosibirsk); Shestopal, V. O. (Novosibirsk) 77
 15
 B

ORG: none

TITLE: Heat capacity of graphite at temperatures in the 1750°-2850°K range 21,44,55
 21,44,55

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 170-171

TOPIC TAGS: heat capacity, graphite, emissivity

ABSTRACT: The heat capacity of graphite was measured. The study made use of modulation methods and optical pyrometry. Specimens of spectrally pure graphite heated by 50 cps ac current were measured in a vacuum in the 1750°-2200°K range and in an argon atmosphere in the higher (2000-2850°K) range. Heat capacity was calculated according to the formula

$$mc = P/2\omega\theta$$

where P = power; ω = current frequency; θ = amplitude of temperature oscillation. Measurements were based on changes (measured by two light

Card 1/2

L 16684-66

ACC NR: AP5021921

2

filters) in the radiant emissivity of the specimens. Color temperature lamps were used to calibrate the photomultiplier tube used in emissivity measurement in the 1700-3000°K range; tungsten filaments were used in the 2100-2550°K range. Results of the measurement of heat capacity of graphite in the 1750-2850°K range shown for five specimens are graphed. Measurements were accurate to ±5%. Results are compared with those of other authors. The authors thank P. G. Stralkov for his interest in the work and N. G. Potapov for preparing the specimens. Orig. art. has: 1 graph, 5 formulas.

SUB CODE: 11, 20/ SUBM DATE: 09Jan65/ ORIG REF: 004/ OTH REF: 008

Card 2/2 SM

BRODSKIY, N.G.; SHESTOPAL, Ya.

[Chemical partial drying of mother beets before lifting]
Preduborochnoe khimicheskoe podsushivanie vysadkov sakharnoi
svekly. Moskva, Pishchepromizdat 1956. 45 p. (MLRA 10:4)
(Sugar beets)

SAMGIN, P.A.; SHESTOPAL, Ya.V.; ZOSIMOVSKAYA, T.V.; GONCHAROV, Ye.R.

Chemical shrub control from the airplane. Zashch. rast. ot vred.
i bol. 6 no.4:20-21 Ap '61. (MIRA 15:6)
(Kalinin Province--Clearing of land)

20891

S/535/60/000/128/005/008
E036/E135

9,2572 (also 1144, 1154)

AUTHORS: Samoylenko, V.I., Candidate of Technical Sciences, and
Shestopalov, A.M., Engineer

TITLE: Some Questions Concerning Parametric Amplification
Using p-n Junction Capacitance

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy, No.128, Moscow,
1960. Primeneniye poluprovodnikovyykh priborov v
aviatsionnykh radiotekhnicheskikh ustroystvakh;
sbornik statey, pp. 64-73

TEXT: In previously published work (Refs. 1 and 4)
parametric amplification using resonant circuits was considered.
In the present paper the authors consider the uses of voltage
divider and bridge type circuits for amplification. The voltage
divider circuit is shown in Fig.1. The high frequency source
voltage is U_{ω} which is in series with the p-n junction
capacitance C and the resistance R_1 . A detector with a load
 R_H is connected across R_1 . The capacitance C is varied at a
comparatively low frequency by the voltage U_{BX} . The junction is

Card 1/5

Moscow Aviation Institute of Science & Technology

20891

S/535/60/000/128/005/008
E036/E135

Some Questions Concerning Parametric Amplification Using p-n Junction Capacitance

reverse biased by the voltage E_{CM} . The output voltage, amplitude modulated, appears across R_H . Power and current gain are possible but not voltage gain. This simple circuit is then analyzed to obtain expressions for voltage, current and power gain. The current and power gain in this circuit for quoted parameters are 40 and 10. An alternative, simpler form of the circuit is given in Fig.2; here the p-n junction (C) is fed from a high frequency current generator. A similar analysis is carried out in this case, an ideal detector also being assumed. Shunting of the junction by the detector is taken into consideration. In this circuit the maximum power gain is $1/4$ the ratio of the input resistance of the circuit to the load resistance, compared to $1/16$ of this ratio in the first circuit. In Fig.4 the bridge circuit amplifier with a p-n junction capacitance is shown, in which the high frequency is applied through the small capacitance C. The reverse biases are applied to the four p-n junctions C through the potentiometer R_1 . The signal to be amplified is

Card 2/5

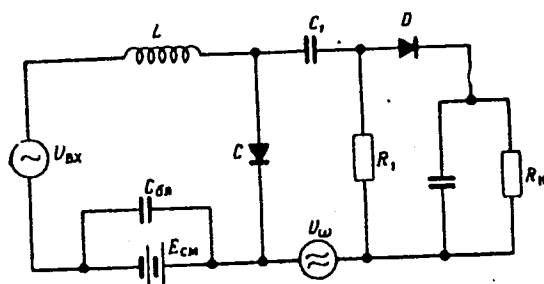
20891

S/535/60/000/128/005/008
E036/E135

Some Questions Concerning

Ref.4: .H. Urkowitz, A ferroelectric amplifier.
Journal of the Franklin Institute, 1958, No. 12.

Fig.1



Card 4/5

20893

9,2586 (also 1139, 1161)

S/535/60/000/128/007/008
E036/E135

AUTHOR: Shestopalov, A.M., Engineer

TITLE: A Kipp Relay Using Junction Transistors With
Electronic Control of the Pulse Length

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy, No.128, Moscow,
1960. Primeneniye poluprovodnikovyykh priborov v
aviatsionnykh radiotekhnicheskikh ustroystvakh;
sbornik statey. pp. 84-90

TEXT: It is sometimes convenient to control pulse lengths
electronically, that is, by voltage control. This can be
achieved by means of a Kipp relay circuit with pulse length
control, using transistors which the author describes and
analyzes in simple terms and which is shown in Fig.1 ($-24B = 24V$;
 $Bb1x0d = output$). The pulse length is controlled by means of the
voltage E_1 . An expression for the pulse length τ is derived.
In the practical circuit a variation of E_1 from -17.8 to -29
volts altered the pulse length from 8 to $1400 \mu sec$. Over this
range the output pulse amplitudes of $18 V$ do not vary by more than
 10% . The pulse rise and fall times are about $4 \mu sec$.
Card 1/4

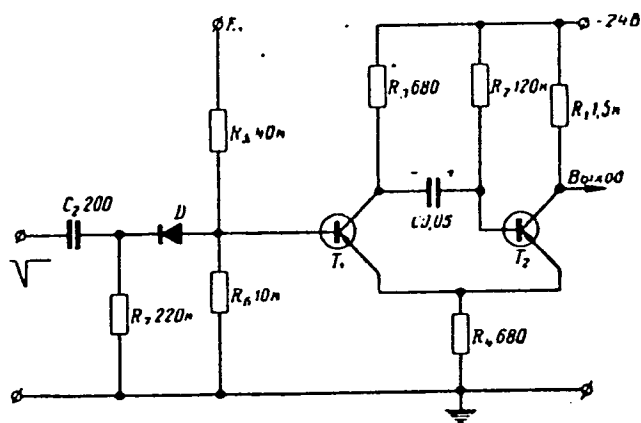
20893

S/535/60/000/128/007/008
E036/E135

E036/E135

A Kipp Relay Using Junction

Fig. 1

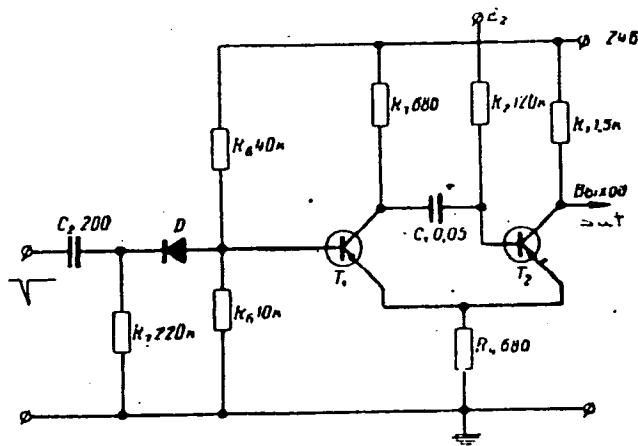


Card 3/4

A Kipp Relay Using Junction

20893
S/535/60/000/128/007/008
E036/E135

Fig. 4



Card 4/4

RELEASE: 07/13/2001

20893
S/162/005/006/004/011
CIA-RDP86-00513R001549130004-4
E192/E502

AUTHORS:
TITLE:

PERIODICAL: Radiotekhnika, v. 5, no. 6, 1962, 688 - 698
TEXT: A semiconductor junction, in which the concentration of ionized impurities varies along the axis perpendicular to the plane of the junction, is considered. The structure of the space charge in the region of the p-n junction is illustrated in Fig. 1, where the coordinates x_1 and x_2 correspond to the boundaries of the depletion layer. The differential capacitance of the junction is expressed by a formula similar to that of a parallel plate capacitor, i.e.

$$C = \frac{\epsilon S}{4\pi (x_2 - x_1)}$$

where ϵ is the permittivity of the semiconductor material and S is the area of the p-n junction. The problem consists of
(1),
Card 1/4

Capacitance of a varicap

S/142/62/005/006/004/011
E192/E382

$$C = C_0 \left(\frac{\varphi_K}{U + \varphi_K} \right)^n \quad (13) ,$$

where C_0 is the initial capacitance and φ_K is the contact potential. For this $C(U)$ Eq. (9) is used to evaluate $\varphi(x_1)$ when $\varphi(x_2) = \varphi x_2^m$ and $\varphi'(x_2) = \varphi$. Eq. (9) can be used for approximate calculation of the acceptor (or donor) distribution for a given distribution of donors (or acceptors) and a given experimental graph showing the functional dependence of the capacitance on the applied voltage U . There are 6 figures.

ASSOCIATION: Kafedra teoreticheskoy radiotekhniki Moskovskogo ordena Lenina aviatsionnogo instituta imeni Sergo Ordzhonikidze (Department of Theoretical Radio-engineering of Moscow "Order of Lenin" Aviation Institute imeni Sergo Ordzhonikidze)

SUBMITTED: January 30, 1962 (initially)
April 23, 1962

Card 3/4

SHESTOPALOV, Aleksandr Osipovich, kand. tekhn. nauk; BONDARENKO,
Viktor Ivanovich, inzh.; KOSTROV, I.N., inzh., retsenzent;
ENGEL', F.F., inzh., nauchnyy red.; GENKIN, Ye.M., red.;
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[Lowering the water level in the construction of the Volga
Hydroelectric Power Station (22d Congress of the CPSU)] Vo-
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imeni XXII s"ezda KPSS. Moskva, Gidroproekt, 1962. 86 p.
(MIRA 17:4)

LOPATINA, O.F., starshiy nauchnyy sotr.; KORENEV, K.N., inzh.;
ANDREYEV, I.D., nauchnyy sotr.; SHESTOPALOV, D.I., agr.; YESIKOV,
P.R., agr.; MOLOTOKOV, P.S., red.; ITUNINA, R.G., red.; SERADZSKAYA,
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[Manual on wages and the establishment of work norms on collective
farms] Spravochnik po opplate i normirovaniyu truda v kolhozakh.
Voronezh, Voronezhskoe knizhnoe izd-vo, 1959. 189 p.
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issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for
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khzyaystva (for Korenev, Shestopalov, Yesikov).
(Voronezh Province---Collective farms---Income distribution)
(Voronezh Province---Collective farms---Production standards)

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[The course of Soviet parachutism] Put' sovetskogo parashutizma.
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(Parachutes)

BELEVTSOV, G.A.; KRASAVTSEV, N.I.; MISCHENKO, N.M.; SOLDATKIN, A.I.;
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SHESTOPALOV, I.I.; PECHNIKOVA, Z.A.; STOLBUNSKIY, L.Z.;
USOV, V.T.; GLOTOV, P.L.; VOLKOVA, A.Ya.; ALDOKHINA, V.P.;
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Investigation of blast furnace smelting using natural gas.
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MISHCHENKO, N.M.; POPOV, N.N., kand. tekhn. nauk; SEMIK, I.P.,
kand. tekhn. nauk; TOTSKIY, G.P., kand. tekhn. nauk; SHESTOPALOV,
I.I.; Primali uchastiye: SOLDATKIN, A.I.; SOLOMKO, V.P.;
SOLOMATIN, A.M.; BOLOTSKIY, D.V.; ZAPOROZHETS, N.P.;
BESSCHASTNYY, A.Ye.; SHVETS, N.Kh.; LIKHUNIN, S.D.; SHUMSKIY, L.B.;
VAS'KOVICH, N.A.; YEROKHINA, A.I.; GELYUKH, B.A.

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Concerning some faults of the code cells of the DVK-3a system.
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(Dump trucks)

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tekhnicheskii redaktor.

[Driver's handbook] Spravochnik shofera-liubitelia. Moskva,
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